

Koichi Kusakabe

List of Publications by Year in descending order

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papers

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citations

567281

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67
all docs

67
docs citations

67
times ranked

3676
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal in-plane magnetoresistance ratio of graphene sandwiched with Ni nanostructures. RSC Advances, 2022, 12, 13985-13991.	3.6	2
2	Material Optimization of Potential High- T_c Superconducting Single-Layer Cuprates. Journal of the Physical Society of Japan, 2021, 90, 054705.	1.6	2
3	Zero-energy modes in a super-chiral nanographene network of phenalenyl-tessellation molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 408, 127462.	2.1	2
4	High magnetoresistance of a hexagonal boron nitride-graphene heterostructure-based MTJ through excited-electron transmission. Nanoscale Advances, 2021, 4, 117-124.	4.6	2
5	$S = 1$ antiferromagnetic electron-spin systems on hydrogenated phenalenyl-tessellation molecules for material-based quantum-computation resources. Applied Physics Express, 2021, 14, 121005.	2.4	1
6	Spin-Current Control by Induced Electric Polarization Reversal in Ni/hBN/Ni: A Cross-Correlation Material. ACS Applied Electronic Materials, 2020, 2, 1689-1699.	4.3	3
7	Interplanar stiffness in defect-free monocrystalline graphite. Physical Review Materials, 2020, 4, .	2.4	7
8	Counting the Zero Modes and Magnetic Moment by Topology of a Phenalenyl-Tessellation Molecule with Vacancies. Journal of the Physical Society of Japan, 2019, 88, 124707.	1.6	2
9	Tunable induced magnetic moment and in-plane conductance of graphene in Ni/graphene/Ni nano-spin-valve-like structure: A first principles study. Carbon, 2019, 143, 828-836.	10.3	13
10	Material-Dependent Screening of Coulomb Interaction in Single-Layer Cuprates. Journal of the Physical Society of Japan, 2018, 87, 114701.	1.6	9
11	Superconductivity arising from layer differentiation in multilayer cuprates. Physical Review B, 2018, 98, .	3.2	3
12	Edge States Caused by Shift of Dirac Points at the Armchair Edge of Distorted Nanographene. Journal of the Physical Society of Japan, 2018, 87, 084706.	1.6	2
13	Self-Doping Effect Arising from Electron Correlations in Multilayer Cuprates. Journal of the Physical Society of Japan, 2017, 86, 084707.	1.6	3
14	Structure Deformation and Level Splitting in Vacancy-Centered Hexagonal Armchair Nanographene. Journal of the Physical Society of Japan, 2017, 86, 034802.	1.6	3
15	Theoretical Analysis of Pseudodegenerate Zero-Energy Modes in Vacancy-Centered Hexagonal Armchair Nanographene. Journal of the Physical Society of Japan, 2016, 85, 084703.	1.6	8
16	Systematic Study of the Effect of H Adsorption on the Electron-Transfer Rate in Graphene. Journal of Computational and Theoretical Nanoscience, 2016, 13, 4883-4887.	0.4	8
17	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. Physical Review B, 2014, 89, .	3.2	44
18	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. Faraday Discussions, 2014, 173, 173-199.	3.2	58

#	ARTICLE	IF	CITATIONS
19	Visualization of electronic states on atomically smooth graphitic edges with different types of hydrogen termination. <i>Physical Review B</i> , 2013, 87, .	3.2	41
20	THE THIRD GENERATION OF THE DIRAC CONE AS A PROOF OF STACKED 2D ELECTRON SYSTEMS IN IRON Pnictides. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1393, 1.	0.1	0
21	SIMULATION OF NANOSCALE ETCHING FOR NANOTUBE AND GRAPHENE DEVICES. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1451, 21-24.	0.1	0
22	A Theoretical Study Showing $K_{2\text{D}}$ picene as a Parent Semiconductor for Organic Superconductivity. <i>Journal of the Physical Society of Japan</i> , 2012, 81, SB071.	1.6	3
23	Hyperbolic Deformation Applied to $S=1$ Spin Chains – Scaling Relation in Excitation Energy –. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 094001.	1.6	2
24	Formation of embedded edge states in graphene on a SrO(111) surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 573-576.	0.8	0
25	Theorems on ground-state phase transitions in Kohn–Sham models given by the Coulomb density functional. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 135305.	2.1	3
26	Determination of boundary scattering, magnon-magnon scattering, and the Haldane gap in Heisenberg spin chains. <i>Physical Review B</i> , 2011, 84, .	3.2	8
27	Pair-Hopping Mechanism for Layered Superconductors. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 114716.	1.6	11
28	A quadratic form of the Coulomb operator and an optimization scheme for the extended Kohn–Sham models. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 064212.	1.8	0
29	First-Principles Study of NaFeAs, NaCoAs, and NaNiAs. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 124712.	1.6	18
30	Ab-Initio Calculation Model for Nanocrystalline Diamond with Non- sp^3 Bonded Region and Its Effect on Elastic Properties. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2009, 75, 1424-1429.	0.2	0
31	Charge-density waves, incommensurate modulations and superconductivity in phosphorus and iodine. <i>High Pressure Research</i> , 2008, 28, 459-467.	1.2	6
32	Finite-size scaling of string order parameters characterizing the Haldane phase. <i>Physical Review B</i> , 2008, 78, .	3.2	31
33	A Microscopic Mechanism of Coulomb Driven Effective Negative Interaction for the High-Temperature Superconductivity. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 109-112.	1.6	0
34	A Determination Method of the Work function using the Slab Model with a First-Principles Electronic Structure Calculation. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008, 6, 103-106.	0.4	9
35	Two-Site Shift Product Wave Function Renormalization Group Method Applied to Quantum Systems. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 114002.	1.6	9
36	Extended String Order Parameter in the $(S=1, 1/2)$ Mixed Spin Chain. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 084714.	1.6	4

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37	A self-consistent first-principles calculation scheme for correlated electron systems. Journal of Physics Condensed Matter, 2007, 19, 445009.	1.8	10
38	First-Principles Electronic Structure Calculation of LaCo ₂ in MgCu ₂ Structure. Journal of the Physical Society of Japan, 2007, 76, 084711.	1.6	2
39	Determination of the effective spin Hamiltonian of Mn ₆ R ₆ referring to the spin density functional theory. Polyhedron, 2007, 26, 2117-2120.	2.2	0
40	The Trimer State of a (S=1, S=1/2) Ferrimagnetic Spin Chain as the Exact Ground State. Journal of the Physical Society of Japan, 2007, 76, 065002.	1.6	2
41	STM/STS observations of zigzag and armchair edges of graphite. Tanso, 2007, 2007, 166-173.	0.1	1
42	New Ferromagnetic Nitrides, CaN and SrN, and their "Recipe". Materials Research Society Symposia Proceedings, 2006, 987, 1.	0.1	0
43	Size dependence of the magnetic properties in ferrimagnetic rings Mn _x R _x (x=2~8). Polyhedron, 2005, 24, 2396-2399.	2.2	1
44	A new ferromagnetic material excluding transition metals: CaAs in a distorted zinc-blende structure. AIP Conference Proceedings, 2005, , .	0.4	6
45	A graphite-diamond hybrid structure as a half-metallic nano wire. AIP Conference Proceedings, 2005, , .	0.4	0
46	Ab-initio Calculations of Lattice Dynamics and Superconductivity in FCC Lithium and Iodine and BCC Tellurium. Journal of the Physical Society of Japan, 2005, 74, 3227-3235.	1.6	18
47	Magnetization Process of (S= 3/2, S= 1) Anisotropic Ferrimagnetic Spin Chain. Progress of Theoretical Physics Supplement, 2005, 159, 148-152.	0.1	3
48	Observation of zigzag and armchair edges of graphite using scanning tunneling microscopy and spectroscopy. Physical Review B, 2005, 71, .	3.2	593
49	Numerical Study of the Magnetization Process of Nanoscale Ferrimagnetic Ring Mn ₆ R ₆ . Journal of the Physical Society of Japan, 2004, 73, 1597-1601.	1.6	4
50	Numerical study of nanoscale ferrimagnetic ring Mn ₆ R ₆ . Journal of Physics Condensed Matter, 2004, 16, S5739-S5742.	1.8	1
51	First-Principles Study of Epitaxial Growth of Zinc-Blende CrAs on GaAs Substrates. Materials Research Society Symposia Proceedings, 2004, 859, 46.	0.1	0
52	Theoretical Prediction of Synthesis Methods to Create Magnetic Nanographite. Journal of the Physical Society of Japan, 2004, 73, 656-663.	1.6	65
53	Magnetic properties of nanographite with modified zigzag edges. Journal of Physics and Chemistry of Solids, 2004, 65, 119-122.	4.0	25
54	Magnetic nanographite. Physical Review B, 2003, 67, .	3.2	467

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55	A Rigorous Extension of the Kohn-Sham Equation for Strongly Correlated Electron Systems. Journal of the Physical Society of Japan, 2001, 70, 2038-2048.	1.6	21
56	A gapless charge mode induced by the boundary states in the half-filled Hubbard open chain. Journal of Physics A, 1998, 31, 7315-7330.	1.6	8
57	Topological Defect and Edge in Graphite. Nanometer Effect on .PI. Electron System.. Hyomen Kagaku, 1998, 19, 35-42.	0.0	2
58	Can Corrugated Si-Planes of CaSi ₂ Flatten under High Pressure?. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 193-195.	0.0	6
59	Magnetism of Nanometer-Scale Graphite with Edge or Topological Defects. Molecular Crystals and Liquid Crystals, 1997, 305, 445-454.	0.3	24
60	Bethe-Ansatz Analysis of the Extended AB Period in the One-Dimensional Hubbard Model. Journal of the Physical Society of Japan, 1997, 66, 2075-2085.	1.6	4
61	Peculiar Localized State at Zigzag Graphite Edge. Journal of the Physical Society of Japan, 1996, 65, 1920-1923.	1.6	2,569
62	Magnetic structure of graphite ribbon. European Physical Journal D, 1996, 46, 1865-1866.	0.4	16
63	Localized electronic states on graphite edge. European Physical Journal D, 1996, 46, 2429-2430.	0.4	15
64	Effect of topological defects in graphite. European Physical Journal D, 1996, 46, 2715-2716.	0.4	5
65	Extended AB Period Study of the Electron Pairing Transition in J Ladders. Journal of Low Temperature Physics, 1996, 105, 609-614.	1.4	2
66	General Rule and Materials Design of Negative Effective U System for High- T_c Superconductivity. Applied Physics Express, 0, 1, 081703.	2.4	16